

Commonwealth of Kentucky
Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

Completed by: Herbert Campbell

General Information

Name:	Northern Kentucky University
Address:	Nunn Drive, Highland Heights, Kentucky 41099
Date application received:	November 12, 2002
SIC/Source description:	8221
AFS(10-digit) Plant ID:	21-037-00095
Application log number:	54674
Permit number:	F-02-025

Application Type/Permit Activity

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
___Administrative	<input type="checkbox"/> Title V
___Minor	<input type="checkbox"/> Synthetic minor
___Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/Operating

Compliance Summary

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

Applicable Requirements list

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input checked="" type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

Miscellaneous

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

Emissions Summary

Pollutant	Natural Gas Potential (tpy)	No. 2 Fuel Oil Potential (tpy)	No. 2 Fuel Oil Conditional (Limited) Emissions
PM	6.76	13.73	2.54
SO ₂	.566	488.25	90.0
NO _x	68.32	137.55	90.0
CO	79.28	34.4	6.34
VOC	5.1	3.74	.70
LEAD	NA	NA	NA
HAP \geq 10 tpy	<10.0	<10.0	<10.0

Source Process Description:

A construction/operating permit application was received from Northern Kentucky University on November 12, 2002. The applicant proposes to construct/operate two new natural-gas/backup #2 fuel oil fired indirect heat exchangers, and will relocate an existing natural-gas/backup #2 fuel oil fired indirect heat exchanger to the construction location to operate. In addition the source will continue to operate twelve existing natural-gas/backup #2 fuel oil fired indirect heat exchangers. The proposed facility modifications will result in emissions increases in excess of 100 tpy for sulfur dioxide (SO₂) and nitrogen oxides (NO_x). The source is taking self-imposed limits to preclude the applicability of Title V requirements. The permittee has opted for a federally enforceable conditional major permit limiting the emission below 90 tons for each regulated air pollutant. Potential to emit calculations were based on 8760 hours of operation per year.

Emissions and Operating Cap Description:

The permittee is limiting operations thereby limiting the potential emissions from the source of Sulfur Dioxide (SO₂) and Nitrogen Oxides (NO_x) below 90 tons per year, individual hazardous air pollutants (HAPs) to less than ten (10) tons per year and combined HAPs to less than 25 tons per year to preclude applicability of Regulation 401 KAR 52:020.

Comments:

There are no SO₂ controls at the source. Emission units 2 & 3 have low NO_x burners and there are no other NO_x controls at the source. State regulation 401 KAR 52:030, Federally-enforceable permits for non-major sources applies to the source.